



1600

ENTERED

DATE: 02/26/2002

TIME: 11:00:45

Output Set: N:\CRF3\02262002\I602833B.raw

4 <110> APPLICANT: Turner, Alex
 5 Zambrowicz, Brian
 6 Nehls, Michael
 7 Freidrich, Glenn A.
 8 Sands, Arthur T.
 10 <120> TITLE OF INVENTION: NOVEL HUMAN GENES AND PROTEINS
 11 ENCODED THEREBY
 13 <130> FILE REFERENCE: 8535-0036-999
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/602,833B
 C--> 15 <141> CURRENT FILING DATE: 2000-06-23
 15 <160> NUMBER OF SEQ ID NOS: 4
 17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1116
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapien
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (1)...(1113)
 28 <400> SEQUENCE: 1
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 30 Met Gly His Lys Val Val Val Phe Asp Ile Ser Val Ile Arg Ala Leu
 31 1 5 10 15
 33 tgg gaa act cgt gtc aag aag cac aaa gct tgg cag aag aag gag gtg 96
 34 Trp Glu Thr Arg Val Lys Lys His Lys Ala Trp Gln Lys Lys Glu Val
 35 20 25 30
 37 gaa agg ctt gag aag agc gcc ttg gag aag ata aag gag gag tgg aac 144
 38 Glu Arg Leu Glu Lys Ser Ala Leu Glu Lys Ile Lys Glu Glu Trp Asn
 39 35 40 45
 41 ttt gtg gcc gaa tgc agg agg aag ggc atc ccc cag gct gta tac tgc 192
 42 Phe Val Ala Glu Cys Arg Arg Lys Gly Ile Pro Gln Ala Val Tyr Cys
 43 50 55 60
 45 aag aat ggc ttc ata gac acc agc gtg cgg ctt ctg gac aag att gaa 240
 46 Lys Asn Gly Phe Ile Asp Thr Ser Val Arg Leu Leu Asp Lys Ile Glu
 47 65 70 75 80
 49 agg aac act ctc aca agg cag agt tca ctt ccc aag gac aga ggc aaa 288
 50 Arg Asn Thr Leu Thr Arg Gln Ser Ser Leu Pro Lys Asp Arg Gly Lys
 51 85 90 95
 53 cgg agc agt gcg ttt gtg ttt gaa ctt tct ggg gag cac tgg acg gag 336
 54 Arg Ser Ser Ala Phe Val Phe Glu Leu Ser Gly Glu His Trp Thr Glu
 55 100 105 110
 57 ctc cca gat tca ttg aag gag cag aca cac ctg aga gaa tgg tac ata 384
 58 Leu Pro Asp Ser Leu Lys Glu Gln Thr His Leu Arg Glu Trp Tyr Ile

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MAR 14 2002
TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 02/26/2002

PATENT APPLICATION: US/09/602,833B

TIME: 11:00:45

Input Set : A:\8535036999.txt

Output Set: N:\CRF3\02262002\I602833B.raw

59	115	120	125	
61	agc aat acc ttg att caa atc att cct aca tat att cag tta ttt caa	432		
62	Ser Asn Thr Leu Ile Gln Ile Ile Pro Thr Tyr Ile Gln Leu Phe Gln			
63	130	135	140	
65	gcg atg aga att ctg gat ctg cca aaa aac caa atc tca cat ctt cca	480		
66	Ala Met Arg Ile Leu Asp Leu Pro Lys Asn Gln Ile Ser His Leu Pro			
67	145	150	155	160
69	gca gaa atc ggt tgt ttg aag aac ctg aaa gaa ctc aat gtg ggt ttc	528		
70	Ala Glu Ile Gly Cys Leu Lys Asn Leu Lys Glu Leu Asn Val Gly Phe			
71	165	170	175	
73	aac tat ctg aag agc att cct cca gaa ttg gga gat tgt gaa aat cta	576		
74	Asn Tyr Leu Lys Ser Ile Pro Pro Glu Leu Gly Asp Cys Glu Asn Leu			
75	180	185	190	
77	gag aga ctg gat tgt tct gga aat cta gaa tta atg gag ctg ccc ttt	624		
78	Glu Arg Leu Asp Cys Ser Gly Asn Leu Glu Leu Met Glu Leu Pro Phe			
79	195	200	205	
81	gaa tta agt aat ttg aag caa gtt aca ttt gta gat atc tca gca aac	672		
82	Glu Leu Ser Asn Leu Lys Gln Val Thr Phe Val Asp Ile Ser Ala Asn			
83	210	215	220	
85	aag ttt tcc agt gtc cca atc tgt gtc ctg cgg atg tog aat ttg cag	720		
86	Lys Phe Ser Ser Val Pro Ile Cys Val Leu Arg Met Ser Asn Leu Gln			
87	225	230	235	240
89	tgg ttg gat atc agc agc aat aac ctg acc gac ctg ccg caa gat ata	768		
90	Trp Leu Asp Ile Ser Ser Asn Asn Leu Thr Asp Leu Pro Gln Asp Ile			
91	245	250	255	
93	gac agg cta gag gag ctg cag agc ttt ctc ttg tat aaa aac aag ttg	816		
94	Asp Arg Leu Glu Glu Leu Gln Ser Phe Leu Leu Tyr Lys Asn Lys Leu			
95	260	265	270	
97	acc tac ctt ccc tat tcc atg ctg aac ctg aag aag ctc act ctg tta	864		
98	Thr Tyr Leu Pro Tyr Ser Met Leu Asn Leu Lys Lys Leu Thr Leu Leu			
99	275	280	285	
101	gtc gtc agt ggg gac cat ttg gtg gag ctc cca act gcc ctt tgt gac	912		
102	Val Val Ser Gly Asp His Leu Val Glu Leu Pro Thr Ala Leu Cys Asp			
103	290	295	300	
105	tca tcc aca cct tta aaa ttt gta agc ctt atg gac aat cct att gat	960		
106	Ser Ser Thr Pro Leu Lys Phe Val Ser Leu Met Asp Asn Pro Ile Asp			
107	305	310	315	320
109	aat gcc caa tgt gaa gat ggc aat gaa ata atg gaa agt gaa cgg gat	1008		
110	Asn Ala Gln Cys Glu Asp Gly Asn Glu Ile Met Glu Ser Glu Arg Asp			
111	325	330	335	
113	cgc caa cat ttt gat aaa gaa gtt atg aaa gcc tat att gaa gac ctt	1056		
114	Arg Gln His Phe Asp Lys Glu Val Met Lys Ala Tyr Ile Glu Asp Leu			
115	340	345	350	
117	aaa gaa aga gaa tct gtt ccc agc tat acc acc aaa gtg tct ttt agc	1104		
118	Lys Glu Arg Glu Ser Val Pro Ser Tyr Thr Thr Lys Val Ser Phe Ser			
119	355	360	365	
121	ctt caa ctt tga	1116		
122	Leu Gln Leu			
123	370			

RAW SEQUENCE LISTING

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Input Set : A:\8535036999.txt

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126 <210> SEQ ID NO: 2
127 <211> LENGTH: 371
128 <212> TYPE: PRT
129 <213> ORGANISM: Homo sapien
131 <400> SEQUENCE: 2
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133   1      5      10      15
134 Trp Glu Thr Arg Val Lys Lys His Lys Ala Trp Gln Lys Lys Glu Val
135      20      25      30
136 Glu Arg Leu Glu Lys Ser Ala Leu Glu Lys Ile Lys Glu Glu Trp Asn
137      35      40      45
138 Phe Val Ala Glu Cys Arg Arg Lys Gly Ile Pro Gln Ala Val Tyr Cys
139      50      55      60
140 Lys Asn Gly Phe Ile Asp Thr Ser Val Arg Leu Leu Asp Lys Ile Glu
141      65      70      75      80
142 Arg Asn Thr Leu Thr Arg Gln Ser Ser Leu Pro Lys Asp Arg Gly Lys
143      85      90      95
144 Arg Ser Ser Ala Phe Val Phe Glu Leu Ser Gly Glu His Trp Thr Glu
145      100     105     110
146 Leu Pro Asp Ser Leu Lys Glu Gln Thr His Leu Arg Glu Trp Tyr Ile
147      115     120     125
148 Ser Asn Thr Leu Ile Gln Ile Ile Pro Thr Tyr Ile Gln Leu Phe Gln
149      130     135     140
150 Ala Met Arg Ile Leu Asp Leu Pro Lys Asn Gln Ile Ser His Leu Pro
151      145     150     155     160
152 Ala Glu Ile Gly Cys Leu Lys Asn Leu Lys Glu Leu Asn Val Gly Phe
153      165     170     175
154 Asn Tyr Leu Lys Ser Ile Pro Pro Glu Leu Gly Asp Cys Glu Asn Leu
155      180     185     190
156 Glu Arg Leu Asp Cys Ser Gly Asn Leu Glu Leu Met Glu Leu Pro Phe
157      195     200     205
158 Glu Leu Ser Asn Leu Lys Gln Val Thr Phe Val Asp Ile Ser Ala Asn
159      210     215     220
160 Lys Phe Ser Ser Val Pro Ile Cys Val Leu Arg Met Ser Asn Leu Gln
161      225     230     235     240
162 Trp Leu Asp Ile Ser Ser Asn Asn Leu Thr Asp Leu Pro Gln Asp Ile
163      245     250     255
164 Asp Arg Leu Glu Glu Leu Gln Ser Phe Leu Leu Tyr Lys Asn Lys Leu
165      260     265     270
166 Thr Tyr Leu Pro Tyr Ser Met Leu Asn Leu Lys Lys Leu Thr Leu Leu
167      275     280     285
168 Val Val Ser Gly Asp His Leu Val Glu Leu Pro Thr Ala Leu Cys Asp
169      290     295     300
170 Ser Ser Thr Pro Leu Lys Phe Val Ser Leu Met Asp Asn Pro Ile Asp
171      305     310     315     320
172 Asn Ala Gln Cys Glu Asp Gly Asn Glu Ile Met Glu Ser Glu Arg Asp
173      325     330     335
174 Arg Gln His Phe Asp Lys Glu Val Met Lys Ala Tyr Ile Glu Asp Leu
175      340     345     350

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176  Lys Glu Arg Glu Ser Val Pro Ser Tyr Thr Thr Lys Val Ser Phe Ser
177          355                      360                      365
178  Leu Gln Leu
179          370
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182 <211> LENGTH: 681
183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapien
186 <220> FEATURE:
187 <221> NAME/KEY: CDS
188 <222> LOCATION: (1)...(678)
190 <400> SEQUENCE: 3
191  atg aga att ctg gat ctg cca aaa aac caa atc tca cat ctt cca gca      48
192  Met Arg Ile Leu Asp Leu Pro Lys Asn Gln Ile Ser His Leu Pro Ala
193    1          5          10          15
195  gaa atc ggt tgt ttg aag aac ctg aaa gaa ctc aat gtg ggt ttc aac      96
196  Glu Ile Gly Cys Leu Lys Asn Leu Lys Glu Leu Asn Val Gly Phe Asn
197          20          25          30
199  tat ctg aag agc att cct cca gaa ttg gga gat tgt gaa aat cta gag      144
200  Tyr Leu Lys Ser Ile Pro Pro Glu Leu Gly Asp Cys Glu Asn Leu Glu
201          35          40          45
203  aga ctg gat tgt tct gga aat cta gaa tta atg gag ctg ccc ttt gaa      192
204  Arg Leu Asp Cys Ser Gly Asn Leu Glu Leu Met Glu Leu Pro Phe Glu
205          50          55          60
207  tta agt aat ttg aag caa gtt aca ttt gta gat atc tca gca aac aag      240
208  Leu Ser Asn Leu Lys Gln Val Thr Phe Val Asp Ile Ser Ala Asn Lys
209    65          70          75          80
211  ttt tcc agt gtc cca atc tgt gtc ctg cgg atg tcg aat ttg cag tgg      288
212  Phe Ser Ser Val Pro Ile Cys Val Leu Arg Met Ser Asn Leu Gln Trp
213          85          90          95
215  ttg gat atc agc agc aat aac ctg acc gac ctg ccg caa gat ata gac      336
216  Leu Asp Ile Ser Ser Asn Asn Leu Thr Asp Leu Pro Gln Asp Ile Asp
217          100          105          110
219  agg cta gag gag ctg cag agc ttt ctc ttg tat aaa aac aag ttg acc      384
220  Arg Leu Glu Glu Leu Gln Ser Phe Leu Leu Tyr Lys Asn Lys Leu Thr
221          115          120          125
223  tac ctt ccc tat tcc atg ctg aac ctg aag aag ctc act ctg tta gtc      432
224  Tyr Leu Pro Tyr Ser Met Leu Asn Leu Lys Lys Leu Thr Leu Leu Val
225          130          135          140
227  gtc agt ggg gac cat ttg gtg gag ctc cca act gcc ctt tgt gac tca      480
228  Val Ser Gly Asp His Leu Val Glu Leu Pro Thr Ala Leu Cys Asp Ser
229          145          150          155          160
231  tcc aca cct tta aaa ttt gta agc ctt atg gac aat cct att gat aat      528
232  Ser Thr Pro Leu Lys Phe Val Ser Leu Met Asp Asn Pro Ile Asp Asn
233          165          170          175
235  gcc caa tgt gaa gat ggc aat gaa ata atg gaa agt gaa cgg gat cgc      576
236  Ala Gln Cys Glu Asp Gly Asn Glu Ile Met Glu Ser Glu Arg Asp Arg
237          180          185          190
239  caa cat ttt gat aaa gaa gtt atg aaa gcc tat att gaa gac ctt aaa      624

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RAW SEQUENCE LISTING

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240  Gln His Phe Asp Lys Glu Val Met Lys Ala Tyr Ile Glu Asp Leu Lys
241          195                      200                      205
243  gaa aga gaa tct gtt ccc agc tat acc acc aaa gtg tct ttt agc ctt      672
244  Glu Arg Glu Ser Val Pro Ser Tyr Thr Thr Lys Val Ser Phe Ser Leu
245          210                      215                      220
247  caa ctt tga                                                              681
248  Gln Leu
249  225
252 <210> SEQ ID NO: 4
253 <211> LENGTH: 226
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapien
257 <400> SEQUENCE: 4
258  Met Arg Ile Leu Asp Leu Pro Lys Asn Gln Ile Ser His Leu Pro Ala
259    1          5          10          15
260  Glu Ile Gly Cys Leu Lys Asn Leu Lys Glu Leu Asn Val Gly Phe Asn
261          20          25          30
262  Tyr Leu Lys Ser Ile Pro Pro Glu Leu Gly Asp Cys Glu Asn Leu Glu
263          35          40          45
264  Arg Leu Asp Cys Ser Gly Asn Leu Glu Leu Met Glu Leu Pro Phe Glu
265          50          55          60
266  Leu Ser Asn Leu Lys Gln Val Thr Phe Val Asp Ile Ser Ala Asn Lys
267          65          70          75          80
268  Phe Ser Ser Val Pro Ile Cys Val Leu Arg Met Ser Asn Leu Gln Trp
269          85          90          95
270  Leu Asp Ile Ser Ser Asn Asn Leu Thr Asp Leu Pro Gln Asp Ile Asp
271          100         105         110
272  Arg Leu Glu Glu Leu Gln Ser Phe Leu Leu Tyr Lys Asn Lys Leu Thr
273          115         120         125
274  Tyr Leu Pro Tyr Ser Met Leu Asn Leu Lys Lys Leu Thr Leu Leu Val
275          130         135         140
276  Val Ser Gly Asp His Leu Val Glu Leu Pro Thr Ala Leu Cys Asp Ser
277          145         150         155         160
278  Ser Thr Pro Leu Lys Phe Val Ser Leu Met Asp Asn Pro Ile Asp Asn
279          165         170         175
280  Ala Gln Cys Glu Asp Gly Asn Glu Ile Met Glu Ser Glu Arg Asp Arg
281          180         185         190
282  Gln His Phe Asp Lys Glu Val Met Lys Ala Tyr Ile Glu Asp Leu Lys
283          195         200         205
284  Glu Arg Glu Ser Val Pro Ser Tyr Thr Thr Lys Val Ser Phe Ser Leu
285          210         215         220
286  Gln Leu
287  225

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VERIFICATION SUMMARY

DATE: 02/26/2002

PATENT APPLICATION: US/09/602,833B

TIME: 11:00:46

Input Set : A:\8535036999.txt

Output Set: N:\CRF3\02262002\I602833B.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

STIC-Biot ch/Ch mLib

60672

From: Chan, Christina
Sent: Wednesday, February 20, 2002 1:52 PM
To: Li, Janice; STIC-Biotech/ChemLib
Subject: RE: 09/602,833

Please rush. Thanks Chris

-----Original Message-----

From: Li, Janice
Sent: Wednesday, February 20, 2002 1:48 PM
To: Chan, Christina
Subject: 09/602,833

Hi, Chris:

Could you please give approval for rush search SEQ ID Nos: 1 and 3 of US 09/602,833 against all commercial databases including pending patent database.

Please print results containing sequences having >24 contiguous bases of SEQ ID Nos: 1 or 3.

This is an amended case.

Thanks

STIC-Biotech/ChemLib

Technical Info. Specialist
STIC/Biotech
CMI 6B02 Tel: 305-9203

From: Spencer, Mark
Sent: Friday, February 22, 2002 9:31 AM
To: Li, Janice; STIC-Biotech/ChemLib
Subject: RE: 09/602,833

Janice,
When I checked the ABSS system there were sequences entered for this case. So, I updated PALM with a CRFE. The sequences can be searched at anytime.

Thanks,
Mark

-----Original Message-----

From: Li, Janice
Sent: Wednesday, February 20, 2002 2:43 PM
T : STIC-Biotech/ChemLib
Cc: Spencer, Mark
Subject: RE: 09/602,833

The corrected CRF just entered today. The paper record indicates that raw listing has been entered, no error report was given. Are you looking at this updated record? If that is the case, could you give an error report, so I can communicate with the applicants?

Thanks for your attention.

Janice

pending
resub

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 2/25/02
Date Completed: 2/26/02
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:

NA Sequences: 4
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST(where applic.)

STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: 05
WWW/Internet: _____
Other (specify): _____